

LISTS OF SPECIES

Checklist of polychaete species from Paraná State (Southern Brazil)

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Abstract

A checklist of polychaete species recorded from Paraná State (Southern Brazil, 25°10'–25°58' S / 47°59'–48°35' W), including estuarine areas from Paranaguá and Guaratuba Bays and shallow continental shelf bottoms, is reported. Altogether 44 families, 164 genera, and 259 valid species are currently known from the area. The list, which provides a synthesis of the regional taxonomical work carried out until now, can serve as a baseline survey for future studies.

Introduction

This checklist provides an updated overview of the polychaete species recorded from Paranaguá Bay and adjacent areas (S Brazil), based on literature records, including unpublished theses or technical reports.

Families, genera and species names are arranged in alphabetical order, to make easier the search for

a given taxon. Original descriptions plus all the local taxonomical references are listed for all species. Ecological literature which mentions polychaete species is listed in the section “additional references”.

No specimens were re-examined, but we are aware that a number of the reported records need to be confirmed, since misidentifications may have happened in the original descriptions. Whenever we have good evidence that species names in published or unpublished records are wrong or inadequate, we point out the need for revisionary work.

Species names reported upon in this checklist are a result of taxonomical and ecological surveys carried out in Paraná State, at the southern Brazilian coast, since 1981. Sampling areas (Figure 1) included the estuarine environments of Paranaguá (25°30' S – 48°20' W) and Guaratuba bays (25°52' S – 48°34' W) and the outer, inner and midcontinental shelf off Paraná (25°10'–25°58' S / 47°59'–48°35' W).

Most of the reported material is currently deposited at the Centro de Estudos do Mar, Universidade Federal do Paraná (MCEM – BPO), in Pontal do Sul, Paraná (Curator: Paulo da Cunha Lana: lana@ufpr.br) and Museu de Zoologia from Universidade de São Paulo (MZUSP). Whenever available, deposit numbers are provided for each species. This collection will be transferred to the Museu de Zoologia from Universidade de São Paulo (MZUSP) by mid-2007. Some specimens were also deposited in National Museum of Natural History, Smithsonian Institution, Washington, D.C., U.S.A (USNM), Senckenberg Museum, Frankfurt am Main, Germany (SMF), Institute of Marine Biology, Vladivostok, Russia (IMBV) and Zoologische Sammlung der Universität Rostock, Germany (ZSRO).

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Systematic checklist

Acoetidae Kinberg, 1858

Eupanthalis kinbergi McIntosh, 1879

Eupanthalis kinbergi McIntosh, 1879: 313.

Eupanthalis kinbergi — Lana, 1987: 1061, table 1.

Panthalis oerstedii Kinberg, 1855

Panthalis oerstedii Kinberg, 1855: 387.

Panthalis oerstedii — Lana, 1984: 26; 1987: 1061, table 1.

Ampharetidae Malmgren, 1867

Isolda pulchella Fritz Müller, 1858

Isolda pulchella Fritz Müller, 1858: 218, figs. 26-27.

Isolda pulchella — Nonato, 1981: 202, fig. 220; Blankensteyn and Moura, 2002: 718, table 2; Amaral and Nallin 2005: 48, table 2.

Deposit number – MZUSP 316.

Melinna cristata (Sars, 1851)

Sabellides cristata Sars, 1851: 205-206.

Melinna cristata — Attolini, 2002: 23, figs. 8, 9, 11, 12, tables 4, 8.

Obs: This is probably a misidentification and this material needs to be revised.

Amphinomidae Savigny in Lamarck, 1818

Amphinome rostrata (Pallas, 1766)

Aphrodita rostrata Pallas, 1766: 106.

Amphinome rostrata — Lana, 1987: 1061, table 1.

Hipponoa gaudichaudi agulhana Day, 1967

Hipponoa gaudichaudi agulhana Day, 1967: 122, fig. 31 a-e.

Hipponoa gaudichaudi agulhana — Lana, 1984: 48; 1987: 1061, table 1.

Deposit number – MCEM – BPO 1480

Linopherus ambigua (Monro, 1933)

Eurythoe ambigua Monro, 1933: 6, fig. 2.

Linopherus ambigua — Lana, 1984: 50; 1987: 1061, table 1.

Deposit number – MCEM – BPO 1315, 1481, 1482.

Paramphinome besnardii Temperini, 1981

Paramphinome besnardii Temperini, 1981: 14, figs. 31-35.

Paramphinome besnardii — Lana, 1984: 50; 1987: 1061, table 1.

Aphroditidae Malmgren, 1867

Aphrodita aculeata Linnaeus, 1761

Aphrodita aculeata Linnaeus, 1761: 509.

Aphrodita aculeata — Rullier and Amoureux, 1979: 146.

Aphrodita longicornis Kinberg, 1855

Aphrodita longicornis Kinberg, 1855: 382.

Aphrodita longicornis — Nonato, 1981: 26; Lana, 1984: 17; 1987: 1061, table 1.

Aphroditella alta (Kinberg, 1855)

Aphrodita alta Kinberg, 1855: 381.

Aphrodita alta — Rullier and Amoureux, 1979: 146.

Aphroditella alta — Lana, 1987: 1061, table 1.

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Laetmonice parva Amaral and Nonato, 1982

Laetmonice parva Amaral and Nonato, 1982: 15, figs. 16-23.

Laetmonice parva — Lana, 1987: 1061, table 1.

Capitellidae Grube, 1862

Capitella capitata (Fabricius, 1780)

Lumbricus capitatus Fabricius, 1780: 279.

Capitella capitata — Bolívar, 1990: 59, figs. 43a-d; Blankensteyn and Moura, 2002: 718, table 2; Amaral and Nallin, 2005: 48, table 2.

Deposit number – MCEM – BPO 542-544.

Obs: This is probably a misidentification and this material needs to be revised.

Heteromastus similis Southern, 1921

Heteromastus similis Southern, 1921: 640.

Heteromastus similis — Bolívar, 1990: 60, figs. 45a-c; Blankensteyn and Moura, 2002: 718, table 2; Amaral and Nallin, 2005: 48, table 2.

Deposit number – MCEM – BPO 546; 547.

Mediomastus californiensis Hartman, 1947

Mediomastus californiensis Hartman, 1947: 264, pl. 26, figs. 64-65.

Mediomastus californiensis — Bolívar, 1990: 60, fig. 44a-b.

Deposit number – MCEM – BPO 545.

Obs: This is probably a misidentification and this material needs to be revised.

Notomastus hemipodus Hartman, 1947

Notomastus hemipodus Hartman, 1947: 424, pl. 48, figs. 1-5.

Notomastus hemipodus — Bolívar, 1990: 63, fig. 47a-d.

Deposit number – MCEM – BPO 582-584.

Notomastus latericeus Sars, 1851

Notomastus latericeus Sars, 1851: 199.

Notomastus latericeus — Amaral *et al.*, 2004: 200, appendix 3.

Notomastus lobatus Hartman, 1947

Notomastus lobatus Hartman, 1947: 415, Pl. 51, figs. 1-5.

Notomastus lobatus — Bolívar, 1990: 61, fig. 46a-d.

Deposit number – MCEM – BPO 549-552; 555-580.

Cirratulidae Ryckholdt, 1851

Caulleriella alata (Southern, 1914)

Chaetozone alata Southern, 1914: 112, pl. 12, fig. 27 a-d.

Caulleriella alata — Bolívar, 1990: 55, fig. 41a-c.

Deposit number – MCEM – BPO 539.

Dodecaceria Oersted, 1843

Dodecaceria sp.

Deposit number – MZUSP 100.

Tharyx dorsobranchialis (Kirkegaard, 1959)

Cirratulus dorsobranchialis Kirkegaard, 1959: 34, figs. 2-3.

Tharyx dorsobranchialis — Bolívar, 1990: 51, fig. 37a-e.

Deposit number – MCEM – BPO 524-528.

Chaetopteridae Malmgren, 1867

Chaetopterus Cuvier, 1827

Chaetopterus sp.

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Chaetopterus variopedatus — Camargo, 1955: 61, figs. 1, 2; Nonato, 1981: 173. Not Renier, 1804.

Obs - This is most probably a misidentification. The original specimens could not be retrieved or localized.

Mesochaetopterus xerecus Petersen and Fanta, 1969

Mesochaetopterus xerecus Petersen and Fanta, 1969: 120, figs. 1-7.

Spiochaetopterus nonatoi Bhaud and Petti, 2001

Spiochaetopterus nonatoi Bhaud and Petti, 2001: 226, figs. 2, 3, 4 a-e.

Deposit number – MZUSP 267.

Cossuridae Day, 1963

Cossura Webster and Benedict, 1887

Cossura sp.

Deposit number – MCEM – BPO 1476.

Dorvilleidae Chamberlin, 1919

Pettiboneia sanmatiensis Orensanz, 1973

Pettiboneia sanmatiensis Orensanz, 1973: 338, figs. 1-8, pl. 5.

Pettiboneia sanmatiensis — Lana, 1987: 1061, table 1.

Protodorvillea kefersteini (McIntosh, 1869)

Dorvillea kefersteini McIntosh, 1869: 417.

Protodorvillea keferstein — Lana, 1987: 1061, table 1.

Schistomeringos rudolphi (delle Chiaje, 1828)

Nereis rudolphi delle Chiaje, 1828: 176.

Schistomeringos rudolphi — Jumars, 1974: 103, fig. 1; Lana, 1984: 195, fig. 213; 1987: 1061, table 1.

Eunicidae Berthold, 1827

Eunice cariboea Grube, 1856

Eunice cariboea Grube, 1856 : 57.

Eunice cariboea — Lana, 1984: 180, figs. 195-196; 1987: 1061, table 1.

Deposit number – MZUSP 101.

Eunice rubra Grube, 1856

Eunice rubra Grube, 1856: 59.

Eunice rubra — Lana, 1984: 183, fig. 198; 1987: 1061, table 1.

Deposit number – MCEM – BPO 1444.

Eunice unifrons (Verrill, 1900)

Leodice unifrons Verrill, 1900: 644.

Eunice cf. *unifrons* — Attolini, 2002: 24, figs. 8, 9, 11, 12, tables 4, 8.

Eunice vittata (delle Chiaje, 1829)

Nereis vittata delle Chiaje, 1829: 195.

Eunice vittata — Lana, 1984: 181, fig. 197; 1987: 1061, table 1.

Marphysa kinbergi McIntosh, 1910

Marphysa kinbergi McIntosh, 1910: 451, fig. 9.

Marphysa kinbergi — Lana, 1984: 185, figs. 199-200; 1987: 1061, table 1.

Marphysa sanguinea (Montagu, 1815)

Nereis sanguinea Montagu, 1815: 20.

Marphysa sanguinea — Lana, 1984: 187, fig. 201; 1987: 1061, table 1.

Nematonereis schmardae McIntosh, 1885

Nematonereis schmardae McIntosh, 1885: 262.

Nematonereis schmardae — Lana, 1987: 1061, table 1

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Deposit number – MCEM – BPO 1459; 1464.

Eulepethidae Chamberlin, 1919

Grubeulepis bracteata Nonato, 1981 *nomen nudum*

Grubeulepis bracteata Nonato, 1981: 70, figs. 76-84 (Original name in an unpublished thesis).

Grubeulepis mexicana (Berkeley and Berkeley, 1969)

Eulepethus mexicanus Berkeley and Berkeley, 1939: 328, figs 4-7.

Deposit number – MCEM – BPO 1470.

Flabelligeridae Saint-Joseph, 1894

Piromis roberti (Hartman, 1951)

Semiodera roberti Hartman, 1951: 99, pl. 26, figs. 1-4.

Piromis roberti — Bolívar, 1990: 91, pl. 26, fig. 70a-d.

Deposit number – MCEM – BPO 716-717.

Obs: This is probably a misidentification and this material needs to be revised.

Glyceridae Grube, 1850

Glycera americana Leidy, 1855

Glycera americana Leidy, 1855: 147, figs. 49-50.

Glycera americana — Lana 1984: 92, figs. 84-85; 1987: 1061, table 1.

Deposit number – MCEM – BPO 1234-1240.

Glycera oxycephala Ehlers, 1887

Glycera oxycephala Ehlers, 1887: 121, figs 7-11.

Glycera cf. *oxycephala* — Lana, 1984: 94, figs. 86-87.

Hemipodia californiensis (Hartman, 1938)

Hemipodus californiensis Hartman, 1938: 93, figs. 2-7.

Hemipodus olivieri Orensanz and Gianuca, 1974: 11, figs. 5, 8, 9.

Hemipodus olivieri — Lana, 1984: 91, figs. 82-83; Blankensteyn and Moura, 2002: 718, table 2; Böggemann, 2002: 82, figs. 133-135; Amaral and Nallin, 2005: 48, table 2.

Hemipodia californiensis — Böggemann 2002: 82, figs. 133-135.

Deposit number – MCEM – BPO 1241-1244.

Hemipodia pustatula (Friedrich, 1956)

Hemipodus pustatula Friedrich, 1956: 61.

Hemipodia pustatula — Böggemann, 2002: 83, figs. 136-138

Hemipodia simplex (Grube, 1857)

Glycera simplex Grube, 1857: 177.

Hemipodus rotundus Nonato, 1981: 104, figs. 125-128; — Lana, 1987: 1061, table 1.

Hemipodia simplex — Böggemann, 2002: 80, figs. 127-129.

Goniadidae Kinberg, 1865

Bathyglycinde profunda (Hartman and Fauchald, 1971)

Glycinde profunda Hartman and Fauchald, 1971: 74-76, pl. 4, figs c-e.

Bathyglycinde profunda — Amaral *et al.*, 2004: 202, appendix 3; Rizzo and Amaral, 2004b: p. 938, figs. 1-21, table 1; Böggemann 2005: 93, figs. 49-50.

Goniada brunnea Treadwell, 1906

Goniada brunnea Treadwell, 1906: 1174, figs. 67-70.

Goniada brunnea — Lana, 1984: 102, figs. 97-99; 1987: 1061, table 1.

Deposit number – MCEM – BPO 1249; 1250; 1252.

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Goniada crudelis (Kinberg, 1865)

Lacharis crudelis Kinberg, 1865: 247

Goniada crudelis — Böggemann, 2005: 98, figs. 53-54.

Goniada emerita Audouin and Milne-Edwards, 1833

Goniada emerita Audouin and Milne-Edwards, 1833: 258.

Goniada emerita — Lana, 1984: 96, figs. 88-90; 1987: 1061, table 1.

Deposit number – MCEM – BPO 1255; 1556; 1571-1575.

Goniada echinulata Grube, 1870

Goniada echinulata Grube, 1870: 67.

Goniada littorea Hartman 1950: 23, figs. 1-10.

Goniada littorea — Lana, 1984: 98, figs. 91-93; Blankensteyn and Moura, 2002: 718, table 2; Amaral *et al.*, 2004: 202, appendix 3; Böggemann, 2005: 69, figs. 35-36.

Deposit number – MCEM – BPO 1246; 1247; 1253; 1254.

Goniada maculata Oersted, 1843

Goniada maculata Oersted, 1843: 33.

Goniada maculata — Lana, 1984: 100, figs. 94-96; 1987: 1061, table 1; Blankensteyn and Moura, 2002: 718, table 2.

Deposit number – MCEM – BPO 1557; 1561; 1567; 1568; 1578; 1581.

Identification not confirmed by Böggemann (2005).

Goniada virgini Kinberg, 1865

Goniada virgini Kinberg, 1865: 247

Goniada virgini — Böggemann, 2005: 93, figs. 49-50.

Goniadella revizee Rizzo and Amaral, 2004a

Goniadella revizee Rizzo and Amaral, 2004: 52, Figs. 4-6, table 2;

Goniadella revizee — Amaral *et al.*, 2004: 202, appendix 3.

Goniadides carolinae Day, 1973

Goniadides carolinae Day, 1973: 48, fig. 7a-h.

Goniadides carolinae — Lana, 1984: 103, fig. 100; 1987: 1061, table 1; Amaral and Nallin, 2005: 48, table 2; Böggemann, 2005: 183, figs. 106-107.

Deposit number – MCEM – BPO 1573; 1577.

Glycinde multident Müller, 1858

Glycinde multident Müller, 1858: 214, est. 6, figs. 4-6.

Glycinde multident — Nonato, 1981: 106, figs. 134-139; Lana, 1984: 104, figs. 101-104; 1987: 1061, table 1; Blankensteyn and Moura, 2002: 718, table 2; Amaral and Nallin, 2005: 48, table 2; Böggemann, 2005: 216, figs. 128-129.

Deposit number – MCEM – BPO 1558-1560; 1562-1564; 1566; 1572; 1576.

Progoniada regularis Hartman, 1965

Progoniada regularis Hartman, 1965: 100-101, pl. 16

Progoniada regularis — Rizzo, 2002: 97, figs. 39-41, tables. 8-9 ; Rizzo and Amaral, 2004a: 48, figs. 1-3, table 1; Amaral *et al.*, 2004: 202, appendix 3; Böggemann, 2005: 155, figs. 86-88.

Hesionidae Grube, 1850

Hesionides Friedrich, 1937

Hesionides sp.

Deposit number – MCEM – BPO1472 .

Ophiodromus obscurus (Verrill, 1873)

Podarke obscura Verrill, 1873: 589, fig. 61.

Podarke obscura — Lana, 1984: 57; 1987: 1061, table 1.

Deposit number – MCEM – BPO 1442.

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Parahesione Pettibone, 1956

Parahesione sp.

Obs: Identified in an unpublished thesis (Lorenzi, 1998). Identification confirmed by Fredrik Pleijel, but material subsequently lost.

Lumbrineridae Schmarda, 1861

Arabelloneris janeirensis (Augener, 1934)

Lumbriconeris janeirensis Augener, 1934: 198, fig. 28a-c.

Lumbrineris janeirensis — Lana, 1984: 171, figs. 188-189; 1987: 1061, table 1.

Arabelloneris janeirensis — Camargo, 1993: 36, fig. 6a-c; Camargo and Lana, 1995a: 81, figs. 7-9, 29.

Deposit number — MCEM — BPO 789; 846.

Lumbricalus januarii (Grube, 1878)

Lumbriconereis januarii Grube, 1878: 91.

Lumbrineris januarii — Lana, 1984: 172, figs. 190-192; 1987: 1061, table 1; Camargo and Lana, 1995b: 103, figs. 22-27, 60.

Lumbricalus januarii — Carrera-Parra, 2004: 84, figs. 3A-G.

Deposit number — MCEM — BPO 745; 755; 860; 867; 870.

Lumbrineris atlantica (Kinberg, 1865)

Lumbriconeris atlantica Kinberg, 1865: 568.

Lumbrineris atlantica Camargo and Lana, 1995b: 95, figs. 1-5, 60.

Deposit number — MCEM — BPO 821; 866.

Lumbrineris cingulata (Ehlers, 1897)

Lumbriconeris cingulata Ehlers, 1897: 76, figs. 119-124.

Lumbrineris cingulata — Lana, 1984: 177, fig. 194a-b; 1987: 1061, table 1; Camargo and Lana, 1995b: 112, figs. 49-54, 61.

Deposit number — MCEM — BPO 773; 788; 798; 800; 802-805; 807; 815; 817; 824; 825; 831; 835-842.

Lumbrineris curtlobata Camargo and Lana, 1995b

Lumbrineris curtlobata Camargo and Lana, 1995b: 1001, figs. 18-21, 60.

Lumbrineris hebes Verrill, 1880

Lumbrineris hebes Verrill, 1880: 174.

Lumbrineris hebes — Lana, 1987: 1061, table 1.

Lumbrineris inflata Moore, 1911

Lumbrineris inflata Moore, 1911: 289, figs. 128-134.

Lumbrineris inflata — Lana, 1984: 175; 1987: 1061, table 1; Camargo, 1993: 76, fig. 15a-f; Camargo and Lana, 1995b: 104, figs. 28-33, 60.

Deposit number — MCEM — BPO 736 ; 775 ; 783-785 ; 792-794.

Lumbrineris magalhaensis Kinberg, 1865

Lumbrineris magalhaensis Kinberg, 1865: 568.

Lumbrineris magalhaensis — Camargo, 1993: 90, fig. 19a-f; Camargo and Lana, 1995b: 110, figs. 45-48, 61.

Deposit number — MCEM — BPO 771; 772; 804; 811; 814; 818; 821; 826; 827; 850; 851; 853; 858; 865.

Lumbrineris latreilli Audouin and Milne Edwards, 1834

Lumbrineris latreilli Audouin and Milne Edwards, 1834: 168.

Lumbrineris latreilli — Lana, 1987: 1061, table 1; Camargo, 1993: 100, fig. 21a-e; Camargo and Lana, 1995b: 115, figs. 55-59, 61.

Deposit number — MCEM — BPO 768; 770; 790; 854.

Lumbrineriopsis mucronata (Ehlers, 1908)

Lumbriconeris mucronata Ehlers, 1908: 95, figs. 9-13.

Lumbrineriopsis mucronata — Lana, 1984: 170, figs. 186-187; 1987: 1061, table 1; Camargo, 1993: 40, fig. 7a-c; Camargo and Lana, 1995a: 82, figs. 10-14, 29.

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Lysarete brasiliensis Kinberg, 1865

Lysarete brasiliensis Kinberg, 1865: 570.

Lysarete brasiliensis — Lana, 1984: 197, fig. 214; 1987: 1061, table 1; Camargo and Lana, 1995a: 79, figs. 1-6, 29.

Deposit number — MCEM — BPO 799; 874.

Ninoe brasiliensis Kinberg, 1865

Ninoe brasiliensis Kinberg, 1865: 567.

Ninoe brasiliensis — Lana, 1984: 168, fig. 185; 1987: 1061, table 1; Camargo, 1993: 111, fig. 24a-d; Camargo and Lana, 1995a: 87, figs. 25-28, 29.

Deposit number — MCEM — BPO 737-743; 777-781; 813; 830-834; 856; 859; 861.

Scoletoma tetraura (Schmarda, 1861)

Notocirrus tetraurus Schmarda, 1861: 117.

Scoletoma tetraura — Camargo, 1993: 62, fig. 12a-f; Camargo and Lana, 1995b: 99, figs. 12-17, 60; Amaral and Nallin, 2005: 48, table 2.

Deposit number — MCEM — BPO 752.

Magelonidae Cunningham and Ramage, 1888

Magelona crenulata Bolívar and Lana, 1986

Magelona crenulata Bolívar and Lana, 1986: 144, figs. 43-49.

Deposit number — MCEM — BPO 200-201.

Magelona papillicornis Müller, 1858

Magelona papillicornis Müller, 1858: 215, figs. 10-11.

Magelona papillicornis — Bolívar, 1986: 46, figs. 102-105; Bolívar and Lana, 1986: 136, figs. 9-12.

Deposit number — MCEM — BPO 99-107; 176-180; MZUSP 128.

Magelona posterelongata Bolívar and Lana, 1986

Magelona posterelongata Bolívar and Lana, 1986: 140, figs. 22-30.

Magelona posterelongata — Bolívar, 1986: 51, figs. 115-123.

Deposit number — MCEM — BPO 126-129; MZUSP 129.

Magelona riojai Jones, 1963

Magelona riojai Jones, 1963: 9, figs. 22-35.

Magelona riojai — Bolívar, 1986: 44, figs. 94-101; Bolívar and Lana, 1986: 135, figs. 1-8; Amaral and Nallin, 2005: 48, table 2.

Deposit number — MCEM — BPO 97-98; 175.

Magelona variolamellata Bolívar and Lana, 1986

Magelona variolamellata Bolívar and Lana, 1986: 137, figs. 13-28.

Magelona variolamellata — Bolívar, 1986: 47, figs. 106-114; Blankensteijn and Moura, 2002: 718, table 2.

Deposit number — MCEM — BPO 108-125; 181-195; MZUSP 130-132.

Maldanidae Malmgren, 1867

Asychis amphiglypta (Ehlers, 1897)

Maldane amphiglypta Ehlers, 1897: 119, Pl. 8, figs. 187-193.

Asychis amphiglypta — Bolívar, 1990: 86, fig. 66a-e.

Deposit number — MCEM — BPO 687.

Axiiothella brasiliensis (Mangum, 1966)

Clymenella brasiliensis Mangum, 1966: 5, fig. 1a-d.

Axiiothella brasiliensis — Bolívar, 1990: 70, fig. 51a-f.

Deposit number — MCEM — BPO 595-597; 600-602; 604; 606; 607; 609-611.

Axiiothella sp.

Deposit number — MZUSP 318.

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Chirimia amoena (Kinberg, 1867)

Chrysothemis amoena Kinberg, 1867: 340.

Chirimia amoena — Bolívar, 1990: 88, fig. 68a-f.

Deposit number – MCEM – BPO 699; 702; 704; 705.

Clymenella dalesi Mangum, 1966

Clymenella dalesi Mangum, 1966: 1, fig. 2a-d.

Clymenella dalesi — Bolívar, 1990: 74, fig. 2a-d.

Deposit number – MCEM – BPO 631; 634; 638; 641; 644; 645; 647.

Rhodine loveni Malmgren, 1865

Rhodine loveni Malmgren, 1865: 189.

Rhodine loveni — Bolívar, 1990: 79, fig. 59a-e.

Deposit number – MCEM – BPO 655-657.

Obs: This is probably a misidentification and this material needs to be revised.

Nephtyidae Grube, 1850

Aglaophamus juvenalis Kinberg, 1866

Aglaophame juvenalis Kinberg, 1866: 240.

Aglaophamus juvenalis — Lana, 1984: 86, figs. 78-79; 1986: 143, figs. 16-17; 1987: 1061, table 1.

Deposit number – MCEM – BPO 26-31; 218; 218.

Aglaophamus uruguayi Hartman, 1953

Aglaophamus uruguayi Hartman, 1953: 32, fig. 8a-d.

Aglaophamus uruguayi — Lana, 1984: 77, figs. 68-69; 1986: 144, figs. 18-19; 1987: 1061, table 1.

Deposit number – MCEM – BPO 32-34; 220-228.

Inermonephtys palpata Paxton, 1974

Inermonephtys palpata Paxton, 1974: 200, figs. 2-6.

Inermonephtys palpata — Lana, 1984: 84, figs. 72-77; 1986: 141, figs. 10-15; 1987: 1061, table 1.

Deposit number – MCEM – BPO 23-25.

Obs: This is a new species, currently being reviewed by Martin, Gil and Lana.

Nephtys acrochaeta Hartman, 1950

Nephtys acrochaeta Hartman, 1950: 114, figs. 1-6.

Nephtys acrochaeta — Lana, 1984: 77, figs. 63-65; 1986: 138, figs. 1-3; 1987: 1061, table 1.

Deposit number – MCEM – BPO 1-5.

Nephtys fluviatilis Monro, 1937

Nephtys fluviatilis Monro, 1937: 246, fig. 2a-c.

Nephtys fluviatilis — Lana, 1984: 77, figs. 68-69; 1986: 140, figs. 6-7; 1987: 1061, table 1; Blankensteyn and Moura, 2002: 718, table 2.

Deposit number – MCEM – BPO 13-16; 216; 217.

Nephtys simoni Perkins, 1980

Nephtys simoni Perkins, 1980: 37, figs. 15-16.

Nephtys simoni — Lana, 1984: 82, figs. 70-71; 1986: 141, figs. 8-9; 1987: 1061, table 1; Amaral and Nallin 2005: 48, table 2.

Deposit number – MCEM – BPO 17-22; 216; 217.

Nephtys squamosa Ehlers, 1887

Nephtys squamosa Ehlers, 1887: 128, figs. 7-10.

Nephtys squamosa — Lana, 1984: 77, figs. 66-67; 1986: 139, figs. 4-5; 1987: 1061, table 1.

Deposit number – MCEM – BPO 6-12; 202-212.

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Nereididae Johnston, 1865

Ceratocephale loveni Malmgren, 1867

Ceratocephale loveni Malmgren, 1867: 61-62.

Ceratocephale loveni — Attolini, 2002: 25, figs. 8, 9, 11, 12, tables 4, 8.

Ceratonereis excisa (Grube, 1874)

Nereis excisa Grube, 1874: 72-73.

Ceratonereis excisa — Lana, 1987: 1061, table 1.

Deposit number — MCEM — BPO 1132-1138; 1375-1376.

Gymnonereis crosslandi (Banse, 1977)

Ceratocephale crosslandi Banse, 1977: 620, fig. 3.

Ceratocephale oculata Banse, 1977

Ceratocephale oculata — Lana, 1984: 113, figs. 109-111.

Deposit number — MCEM — BPO 963-968; 970-983; 985-987; 989-1005.

Laeonereis acuta (Treadwell, 1923)

Nereis acuta Treadwell, 1923: 3, figs. 1-5.

Laeonereis acuta — Lana, 1984: 115, figs. 112-113; 1987: 1061, table 1; Blankensteyn and Moura, 2002: 718, table 2; Amaral and Nallin, 2005: 48, table 2.

Deposit number — MCEM — BPO 1155-1209; 1369-1372; 1374.

Micronereides capensis Day, 1963

Micronereides capensis Day, 1963: 404, fig. 6a-e.

Micronereides capensis — Amaral *et al.*, 2004: 202, appendix 3; Amaral *et al.*, 2006: 122.

Deposit number — MCEM — BPO 1271-1277; 1280; 1283; 1289.

Namalycastis abiuma (Müller in Grube, 1872)

Paranereis abiuma Müller in Grube, 1872: 47.

Namalycastis abiuma — Lana, 1984: 109, figs. 105-106; 1987: 1061, table 1; Glasby, 1999: 31, figs. 1c, 8a-b, 9.

Deposit number — MCEM — BPO 876; 1216; 1341.

Namanereis amboinensis (Pflugfelder, 1933)

Lycastopsis amboinensis Pflugfelder, 1933: 69-71, figs. 9-11.

Namanereis amboinensis — Hartman, 1959: 162-163; Glasby, 1999: 76, figs. 1c, 3, 31 a-g.

Lycastopsis pontica — Lana, 1987: 1061, table 1; Amaral and Nallin, 2005: 48, table 2.

Neanthes bruaca Lana and Sovierzoski, 1987

Neanthes bruaca Lana and Sovierzoski, 1987: 678, figs. 1-4.

Neanthes bruaca — Lana, 1984: 133, figs. 128-134a-c; 1987: 1061, table 1; Steiner and Santos, 2004: 39, figs. 1-6.

Deposit number — MCEM — BPO 233; 235-239; 1222-1225; 1295-1309; 1400-1409; 1413; MZUSP 140.

Neanthes ceciliae Steiner and Santos, 2004

Neanthes ceciliae Steiner and Santos, 2004: 47, figs. 7-14, table 1.

Neanthes succinea (Frey and Leuckart, 1847)

Nereis succinea Frey and Leuckart, 1847: 154.

Neanthes succinea — Lana, 1984: 136, figs. 135; 1987: 1061, table 1; Blankensteyn and Moura, 2002: 718, table 2.

Deposit number — MCEM — BPO 1015-1030; 1345-1357; 1411; 1412; MZUSP 140.

Nereis broa Lana and Sovierzoski, 1987

Nereis broa Lana and Sovierzoski, 1987: 683, figs. 5-8.

Nereis broa — Amaral *et al.*, 2006: 127.

Deposit number — MCEM — BPO 240.

Nereis oligohalina (Rioja, 1946)

Neanthes oligohalina Rioja, 1946: 207, figs. 3-6 and 13-19.

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Nereis oligohalina — Lana, 1984: 131, figs. 127a-b; 1987: 1061, table 1; Blankensteyn and Moura, 2002: 718, table 2; Amaral and Nallin, 2005: 48, table 2.

Deposit number – MCEM – BPO 1090-1100; 1102; 1103; 1337-1340; 1633-1634.

Obs: This is probably a misidentification and this material needs to be revised.

Nereis riisei Grube, 1857

Nereis riisei Grube, 1857: 162.

Nereis riisei — Lana, 1984: 128, figs. 124-124; 1987: 1061, table 1.

Deposit number – MCEM – BPO 1037-1089; 1101; 1342-1344.

Nereis zonata Malmgren, 1867

Nereis zonata Malmgren, 1867: 164, fig. 34.

Nereis zonata — Lana, 1984: 130, figs. 126a-b; 1987: 1061, table 1.

Deposit number – MCEM – BPO 1334-1335.

Nereis cf. persica Fauvel 1911

Nereis cf. persica Fauvel, 1911: 385.

Deposit number – MCEM – BPO 1389-1398; 1393.

Perinereis anderssoni Kinberg, 1866

Perinereis anderssoni Kinberg, 1866: 175.

Perinereis anderssoni — Lana, 1984: 126, figs. 122-123; 1987: 1061, table 1.

Deposit number – MCEM – BPO 896-905; 1386-1388.

Perinereis cultrifera (Grube, 1840)

Nereis cultrifera Grube, 1840: 74.

Perinereis cultrifera — Nonato, 1981: 96, figs. 99-106.

Deposit number – MCEM – BPO 886-889.

Perinereis ponteni Kinberg, 1866

Perinereis ponteni Kinberg, 1866: 176.

Perinereis ponteni — Lana, 1984: 123, figs. 119-121; 1987: 1061, table 1.

Deposit number – MCEM – BPO 906-934; 1358-1365.

Perinereis vancaurica (Ehlers, 1868)

Nereis vancaurica Ehlers, 1868: 20.

Perinereis vancaurica — Lana, 1984: 121, figs. 118; 1987: 1061, table 1; Blankensteyn and Moura, 2002: 718, table 2.

Deposit number – MCEM – BPO 890-894; 1378-1385.

Obs: This is probably a misidentification and this material needs to be revised.

Platynereis dumerilii (Audouin and Milne-Edwards, 1833)

Nereis dumerilii Audouin and Milne-Edwards, 1833: 154, fig. 43.

Platynereis dumerilii — Lana, 1984: 117, figs. 114a-b; 1987: 1061, table 1; Amaral and Nallin, 2005: 48, table 2.

Deposit number – MCEM – BPO 936-962; 1377; 1414; 1418; MZUSP 154.

Pseudonereis gallapagensis Kinberg, 1866

Pseudonereis gallapagensis Kinberg, 1866: 174.

Pseudonereis gallapagensis — Lana, 1984: 118, figs. 115-117; 1987: 1061, table 1; Amaral and Nallin, 2005: 48, table 2.

Deposit number – MCEM – BPO 882-885; 1367; 1368.

Oeononidae Kinberg, 1865

Arabella iricolor (Montagu, 1804)

Neris iricolor Montagu, 1804: 82.

Arabella iricolor — Lana, 1984: 192, figs. 208-209; 1987: 1061, table 1; Amaral and Nallin, 2005: 48, table 2.

Drilonereis filum (Claparede, 1870)

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Lumbriconereis filum Claparede, 1870: 454, fig. 1.

Drilonereis filum — Lana, 1984: 193, figs. 210-211; 1987: 1061, table 1; Amaral and Nallin, 2005: 48, table 2

Notocirrus lorum Ehlers, 1897

Notocirrus lorum Ehlers, 1897: 78.

Notocirrus lorum — Lana, 1987: 1061, table 1.

Onuphidae Kinberg, 1865

Australonuphis casamiquelorum (Orensanz, 1974)

Americonuphis casamiquelorum Orensanz, 1974: 100, pl. 9, figs. 1-14.

Australonuphis casamiquelorum — Lana, 1987: 1061, table 1; 1991: 286; Amaral and Nallin, 2005: 48, table 2.

Deposit number – MCEM – BPO 429-430.

Brevibrachium hannelorae Lana, 1991

Rhamphobrachium cf. *agassizii* — Lana, 1984: 148, table 1; 1987: 1061, table 1.

Brevibrachium hannelorae Lana, 1991: 284, figs. 2 a-m.

Deposit number – MCEM – BPO 367; 368.

Diopatra dextignatha Paxton and Bailey-Brock, 1986

Diopatra dextignatha Paxton and Bailey-Brock, 1986: 1-4, figs. 1-16. — Steiner, 2006: 101, figs. 35-39.

Diopatra cuprea — Lana, 1984: 142, figs. 138-140; 1987: 1061, table 1.

Diopatra viridis — Lana, 1991: 283; Amaral and Nallin, 2005: 48, table 2.

Deposit number – MCEM – BPO 371-377.

Diopatra tridentata Hartman, 1944

Diopatra tridentata Hartman, 1944: 61, figs. 37-43.

Diopatra tridentata — Lana, 1984: 144, figs. 141-142; 1987: 1061, table 1; 1991: 283; Amaral *et al.*, 2004: 203, appendix 3.

Deposit number – MCEM – BPO 379-393.

Hyalinoecia juvenalis Moore, 1911

Hyalinoecia juvenalis Moore, 1911: 277, figs. 86-95.

Hyalinoecia juvenalis — Nonato, 1981: 117; Lana, 1984: 140, figs. 136-137; 1987: 1061, table 1; 1991: 283.

Kinbergonuphis atlantisa (Hartman, 1965)

Nereis atlantisa Hartman, 1965: 102-104, figs. 17a-c.

Kinbergonuphis atlantisa — Attolini, 2002: 25, figs. 8, 9, 11, 12, tables 4, 8.

Kinbergonuphis difficilis (Fauchald, 1982)

Onuphis difficilis Fauchald, 1982: 203, fig. 1.

Kinbergonuphis difficilis — Lana, 1984: 165, fig. 184; 1987: 1061, table 1; 1991: 290.

Deposit number – MCEM – BPO 424-426; 428.

Kinbergonuphis fauchaldi Lana, 1991

Kinbergonuphis fauchaldi — Lana, 1984: 161, figs. 177-181 (Original name in an unpublished thesis)

Kinbergonuphis fauchaldi Lana, 1991: 286, fig. 3a-k;

Deposit number – MCEM – BPO 413- 414; 417.

Kinbergonuphis nonatoi Lana, 1991

Kinbergonuphis nonatoi — Lana, 1984: 159, figs 170-176 (Original name in an unpublished thesis)

Kinbergonuphis nonatoi Lana, 1991, table 1; 1991: 288, figs. 4a-l.

Deposit number – MCEM – BPO 411; 412.

Kinbergonuphis orensanzi (Fauchald, 1982)

Onuphis orensanzi Fauchald, 1982: 205, fig. 2.

Kinbergonuphis orensanzi — Lana, 1984: 163, figs. 183; 1987: 1061, table 1; 1991: 290.

Deposit number – MCEM – BPO 415; 416; 418; 419; 421-423; 1469.

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Mooreonuphis lineata Lana, 1991

Mooreonuphis lineata — Lana, 1984: 152, figs. 157-164 (Original name in an unpublished thesis)

Mooreonuphis lineata — Lana, 1991: 291, figs. 5a-m.

Deposit number – MCEM – BPO 395-400; 434-435; MZUSP 139.

Mooreonuphis intermedia (Kinberg, 1865)

Onuphis intermedia Kinberg, 1865: 560.

Mooreonuphis intermedia — Lana, 1984: 155, figs 165-168.

Deposit number – MCEM – BPO 402-405; 407-409.

Mooreonuphis pallidula (Hartman, 1965)

Nothria pallidula Hartman, 1965: 1965, figs. d-h, pl. 17.

Mooreonuphis pallidula — Amaral *et al.*, 2006: 203.

Nothria benthophyla Lana, 1991

Nothria benthophyla — Temperini, 1981: 32, figs. 62-72 (Original name in an unpublished thesis).

Nothria benthophyla Lana, 1984: 150, figs. 146-156; 1987: 1061, table 1.

Nothria benthophyla Lana, 1991: 280, figs. 1a-m.

Deposit number – MCEM – BPO 394.

Onuphis eremita oculata Hartman, 1951

Onuphis eremita oculata Hartman, 1951: 52, figs. 1-2.

Onuphis eremita oculata — Lana, 1984: 158, fig. 169; 1991: 293.

Deposit number – MCEM – BPO 410

Rhamphobrachium verngreni (Kinberg, 1865)

Onuphis verngreni Kinberg, 1865: 560.

Ramphobrachium verngreni — Lana, 1984: 146, figs. 143-144; 1987: 1061, table 1; 1991: 286.

Opheliidae Malmgren 1867

Armandia hosfeldi Hartmann-Schröder, 1956

Armandia hosfeldi Hartmann-Schröder, 1956: 67, figs. 10-11

Armandia hosfeldi — Elías *et al.*, 2003: 78.

Deposit number – MCEM – BPO 1584-1588.

Armandia maculata (Webster, 1884)

Ophelina maculata Webster, 1884: 322, pl. 11, figs. 54-55.

Armandia maculata — Elías *et al.*, 2003: 79.

Armandia lobo Elías and Bremec, 2003

Armandia lobo Elías and Bremec, 2003: 181.

Deposit number – MCEM – BPO 1590; 1591.

Euzonus furciferus (Ehlers, 1897)

Thoracophelia furcifera Ehlers, 1897: 101

Euzonus furciferus — Blankensteyn and Moura, 2002: 718, table 2; Amaral and Nallin, 2005: 48, table 2.

Obs: This is probably a misidentification and this material needs to be revised.

Ophelina acuminata Oersted, 1843

Ophelina acuminata Oersted, 1843: 2, Pl. 46.

Ophelina cf. *acuminata* — Elías *et al.*, 2003: 81.

Deposit number – MCEM – BPO 1592-1606; 1612.

Ophelina alata Elías, Bremec, Lana and Orensanz, 2003

Ophelina alata Elías, Bremec, Lana and Orensanz, 2003: 83, fig. 3.

Deposit number – MCEM – BPO 1607-1609; 1613-1616.

Ophelina cylindrica (Hansen, 1878)

Ammotrypane cylindrica Hansen, 1878: 8

Ophelina cylindrica — Amaral *et al.*, 2004: 201, appendix 3.

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Ophelina gaucha Elías, Bremec, Lana and Orensanz, 2003

Ophelina gaucha Elías, Bremec, Lana and Orensanz, 2003: 82, fig. 2.

Deposit number – MCEM – BPO 1610.

Travisia sp.

Deposit number – MCEM – BPO 1475.

Orbiniidae Hartman, 1942

Leitoscoplos kerguelensis (McIntosh, 1885)

Scoloplos kerguelensis McIntosh, 1885: Pl. 43, figs. 6-8, pl. 221, fig. 19.

Leitoscoplos kerguelensis — Bolívar, 1990: 27, fig. 19a-e.

Leitoscoloplos robustus (Verrill, 1873)

Anthostoma robustum Verrill, 1873: 597, Pl. 14, fig. 76.

Leitoscoloplos robustus — Bolívar, 1990: 26, fig. 18a-d; Amaral and Nallin, 2005: 48, table 2.

Naineris setosa (Verrill, 1900)

Aricia setosa Verrill, 1900: 651.

Naineris setosa — Bolívar, 1990: 11, fig. 5a-d.

Deposit number – MCEM – BPO 436; 731-732.

Orbinia latreillii (Audouin and Milne-Edwards, 1834)

Aricia latreillii Audouin and Milne-Edwards, 1834: 259.

Orbinia cf. *latreillii* — Bolívar, 1990: 23, fig. 15a-e.

Deposit number – MCEM – BPO 479-480.

Phylofelix Kinberg, 1866

Phylofelix Kinberg, 1866: 251.

Phylofelix — Bolívar, 1990: 12, fig. 6a-e.

Deposit number – MCEM – BPO 437-440.

Scoloplos capensis (Day, 1961)

Scolaricia capensis Day, 1961: 480, pl. 17, fig. 1p-s.

Scoloplos capensis — Bolívar, 1990: 19, fig. 12a-d.

Deposit number – MCEM – BPO 471; 472.

Scoloplos ohlini (Ehlers, 1901)

Aricia ohlini Ehlers, 1901: 167, Pl. 21, figs. 9-13.

Scoloplos ohlini — Bolívar, 1990: 14, fig. 8a-d.

Deposit number – MCEM – BPO 442-457; MZUSP 263.

Scoloplos rubra (Webster, 1879)

Aricia rubra Webster, 1879: 253, Pl. 9, figs. 123-126.

Scoloplos rubra — Bolívar, 1990: 16, fig. 9a-e.

Deposit number - MCEM – BPO 458-461.

Scoloplos scoloplos Blainville, 1828

Scoloplos scoloplos Blainville, 1828: 628

Scoloplos treadwelli Eisig, 1914

Scoloplos treadwelli Eisig, 1914: 21 figs. 161-169.

Scoloplos treadwelli — Attolini, 2002: 26, figs. 8, 9, 11, 12, tables 4, 8.

Scoloplos verax (Kinberg, 1866)

Leodamas verax Kinberg, 1866: 252.

Scoloplos verax — Bolívar, 1990: 17, fig. 10a-c.

Deposit number – MCEM – BPO 462-466; 468.

Oweniidae delle Chiaje, 1844

Galathowenia Kirkegaard, 1959

Galathowenia sp.

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Obs: Identified in an unpublished thesis (Lorenzi, 2004), but material subsequently lost.

Owenia brasiliensis Hansen, 1882

Amochares brasiliensis Hansen, 1882: 19, Pl. 5, fig. 33-36, Pl. 6, figs. 1-4.

Owenia sp. 1 — Sene-Silva, 2003: 79.

Owenia fusiformis delle Chiaje, 1844

Owenia fusiformis delle Chiaje 1844: 31.

Owenia fusiformis — Nonato, 1981: 195; Amaral and Nallin, 2005: 48, table 2.

Obs: This is probably a misidentification and this material needs to be revised.

Paralacydoniidae Pettibone, 1963

Paralacydonia paradoxa Fauvel, 1913

Paralacydonia paradoxa Fauvel, 1913: 54, fig. 10.

Paralacydonia paradoxa — Rizzo, 2002: 117, figs. 42, 43.

Paraonidae Cerruti, 1909

Aparaonis sp.

Deposit number – MZUSP 56.

Aricidea albatrossae Pettibone, 1957

Aricidea albatrossae Pettibone, 1957: 354, fig. 1a-f.

Aricidea cf. *albatrossae* — Bolívar, 1990: 30, fig. 20a-d.

Aricidea fragilis Webster, 1879

Aricidea fragilis Webster, 1879: 55, pl. 9, figs. 127-132.

Aricidea cf. *fragilis* — Bolívar, 1990: 31, fig. 21a-d.

Deposit number – MCEM – BPO 495.

Aricidea taylori Pettibone, 1965

Aricidea taylori Pettibone, 1965: 131, figs. 4a-c, 5a-c.

Aricidea taylori — Bolívar, 1990: 34, fig. 24a-e.

Aricidea simplex (Day, 1963)

Aricidea suecica simplex Day, 1963: 364, fig. 3a-b.

Aricidea simplex — Bolívar, 1990: 37, fig. 26a-f.

Cirrophorus branchiatus Ehlers, 1908

Cirrophorus branchiatus Ehlers, 1908: 124, Pl. 17, figs. 5-9.

Cirrophorus branchiatus — Bolívar, 1990: 38, fig. 27a-e.

Deposit number – MCEM – BPO 509-511.

Paraonis pygoenigmatica Jones, 1968

Paraonis pygoenigmatica Jones, 1968: 323, figs. 1-23.

Paraonis pygoenigmatica — Amaral and Nallin, 2005: 48, table 2.

Pectinariidae de Quatrefages, 1866

Pectinaria cf. *catarinensis* Grube, 1871

Pectinaria catarinensis Grube, 1871: 72.

Deposit number – MZUSP152.

Pilargidae Saint-Joseph, 1899

Ancistrostylis jonesi Pettibone, 1966

Ancistrostylis jonesi Pettibone, 1966: 173, figs. 9-10.

Ancistrostylis jonesi — Lana, 1984: 61; 1987: 1061, table 1.

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Deposit number – MCEM – BPO 1490.

Litocorsa Pearson, 1970

Litocorsa sp.

Obs: Identified in an unpublished thesis (Lorenzi, 2004), but material subsequently lost.

Parandalia tricuspis (Müller, 1858)

Loandalia americana Hartman, 1947: 506, figs. 1-7.

Parandalia americana — Lana, 1984: 59; 1987: 1061, table 1; Blankensteyn and Moura, 2002: 718, table 2.

Parandalia tricuspis — Salazar-Vallejo, 1990: 512, figs. 3, 4d-f.

Deposit number - MCEM – BPO 1485-1487.

Sigambra grubei Müller, 1858

Sigambra grubei Müller, 1858: 214, figs. 7-9.

Sigambra grubii — Nonato, 1981: 90, figs. 97-98; Lana, 1984: 61; 1987: 1061, table 1; Amaral *et al.*, 2006: 48, table 2.

Deposit number – MCEM – BPO 1488.

Sigambra sp.

Deposit number - MCEM – BPO 1489.

Pisionidae Ehlers, 1901

Pisionidens indica Aiyar and Alikunhi, 1940

Pisionidens indica Aiyar and Alikunhi, 1940: 106.

Pisionidens indica — Amaral *et al.*, 2006: 120; Amaral and Nallin, 2005: 48, table 2.

Deposit number – MCEM – BPO 1228; 1478.

Pisione Grube, 1857

Pisione sp.

Deposit number – MCEM – BPO 1477.

Phyllodocidae Oersted, 1843

Anaitides tamoya Nonato, 1981 *nomen nudum*.

Anaitides tamoya Nonato, 1981: 77. (Original name in an unpublished thesis)

Anaitides tamoya — Lana, 1987: 1061, table 1.

Eulalia myriacicla (Schmarda, 1861)

Notophyllum myriacicla Schmarda, 1861: 87, fig. 233.

Eulalia myriacicla — Lana, 1984: 53; 1987: 1061, table 1.

Deposit number – MCEM – BPO 1484.

Genetyllis castanea (Marenzeller, 1879)

Carobia castanea Marenzeller, 1879: 127, fig. 2.

Genetyllis castanea — Lana, 1984: 54; 1987: 1061, table 1.

Deposit number – MCEM – BPO 1483.

Hesionura Hartmann-Schröder, 1958

Hesionura sp.

Deposit number – MCEM – BPO 1471.

Phyllodoce mucosa Oersted, 1843

Phyllodoce mucosa Oersted, 1843: 31.

Phyllodoce cf. *mucosa* — Lana, 1984: 56.

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Pholoididae Kinberg, 1858

Pholoe minuta (Fabricius, 1780)

Aphrodita minuta Fabricius, 1780: 414.

Pholoe minuta — Lana, 1984: 33; 1987: 1061, table 1; Amaral and Nonato, 1984: 17, figs. 19-25.

Obs: This is probably a misidentification and this material needs to be revised.

Polygordiidae Czerniavsky, 1881

Polygordius Schneider, 1868

Polygordius sp.

Deposit number – MCEM – BPO 1474.

Polynoidae Malmgren, 1867

Eunoe papilosa Amaral and Nonato, 1982

Eunoe papilosa Amaral and Nonato, 1982: 19, figs. 32-37.

Eunoe papilosa — Lana, 1987: 1061, table 1.

Eunoe serrata Amaral and Nonato, 1982

Eunoe serrata Amaral and Nonato, 1982: 19, figs. 38-44.

Eunoe serrata — Lana, 1984: 22; 1987: 1061, table 1.

Deposit number – MCEM – BPO 1230; 1231.

Halosydnella brasiliensis (Kinberg, 1858)

Halosydna brasiliensis Kinberg, 1858: 16, fig. 22.

Halosydnella brasiliensis — Lana, 1984: 21; 1987: 1061, table 1.

Deposit number – MCEM – BPO 1232.

Harmothoe lunulata (delle Chiaje, 1841)

Polynoe lunulata delle Chiaje, 1841 in Claparède, 1868: 373.

Harmothoe lunulata — Lana, 1984: 23; 1987: 1061, table 1.

Lepidasthenia virens (Blanchard, 1849)

Polynoe virens Blanchard, 1849: 16.

Lepidasthenia virens — Lana, 1987: 1061, table 1.

Subadyte pellucida (Ehlers, 1864)

Polynoe pellucida Ehlers, 1864: 105, fig. 10, est. 3, figs 5, 7-13, est. 4, figs 1-3.

Subadyte pellucida — Lana, 1984: 19; 1987: 1061, table 1.

Deposit number – MCEM – BPO 1229.

Protodrilidae Czerniavsky, 1881

Protodrilus Hatschek, 1880

Protodrilus sp.

Deposit number – MCEM – BPO 1473

Sabellariidae Johnston, 1865

Phragmatopoma caudata Mörch, 1963

Phragmatopoma lapidosa Kinberg, 1867: 349.

Phragmatopoma caudata — Kirtley 1994: 31, figs. 2.3.1-2.3.6.

Phragmatopoma lapidosa — Lana and Bremec, 1994: 21.

Deposit number – MZUSP 153.

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Sabellaria bella Grube, 1870

Sabellaria bella Grube, 1870: 69.

Sabellaria bella — Gruet and Lana, 1998: 32, figs. 1-2; Lana and Gruet, 1989: 243; Lana and Bremec, 1994: 21; Kirtley, 1994: 53, fig. 4.3

Deposit number – MCEM – BPO 251.

Sabellaria bellis Hansen, 1882

Sabellaria bellis Hansen, 1882: 19, pl. VI, figs. 5-17.

Sabellaria bellis — Rullier and Amoureux, 1979: 188; Gruet and Lana, 1998: 34, figs. 3-4; Kirtley 1994: 54, fig. 4.5.1-4.5.2.

Sabellaria wilsoni Lana and Gruet, 1989

Sabellaria wilsoni Lana and Gruet, 1989: 239, figs. 1-21.

Sabellaria wilsoni — Kirtley, 1994: 80, fig. 4.33.

Deposit number – MCEM – BPO 241-244; 431; 730.

Sabellidae Malmgren, 1867

Potamilla fonticula (Hoagland, 1919)

Parasabella fonticula Hoagland, 1919: 579.

Potamilla fonticula — Rullier and Amoureux, 1979: 191.

Saccocirridae Czerniavsky, 1881

Saccocirrus Bobretzky, 1871

Saccocirrus sp.

Deposit number – MCEM – BPO 1479.

Scalibragmatidae Malmgren 1867

Scalibregma inflatum Rathke, 1843

Scalibregma inflatum Rathke, 1843: 184, Pl. 9, figs. 15-21

Scalibregma inflatum — Bolívar, 1990: 90, fig. 69a-d.

Sigalionidae Kinberg, 1856

Ehlersileanira incisa (Grube, 1878)

Sthenelais incisa Grube, 1878: 519.

Ehlersileanira incisa — Lana, 1984: 46; 1987: 1061, table 1; 1991: 131.

Deposit number - MCEM- BPO 172-174.

Fimbriosthenelais marianae Lana, 1991

Fimbriosthenelais marianae — Lana, 1984: 39; 1987: 1061, table 1 (Original name in an unpublished thesis).

Fimbriosthenelais marianae Lana, 1991: 128, figs. 22-35.

Deposit number – MCEM – BPO 145-147

Psammolyce catenulata Amaral and Nonato, 1984

Psammolyce catenulata — Amaral and Nonato, 1984: 20, figs. 33-43; Lana, 1987: 1061, table 1.

Psammolyce catenulata — Lana, 1984: 34; 1991: 124.

Psammolyce flava Kinberg, 1855

Psammolyce flava Kinberg, 1855: 388.

Psammolyce flava — Lana, 1991: 125; 1987: 1061, table 1.

Sigalion arenicola Verrill, 1879

Sigalion arenicola Verrill, 1879: 167.

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- Sigalion arenicola* — Lana, 1984 : 126, figs. 13-16; 1987: 1061, table 1.
Deposit number- MCEM – BPO 141-143.
- Sigalion cirriferum* Orensanz and Gianuca, 1974
Sigalion cirriferum Orensanz and Gianuca, 1974: 4, figs. 2-3, 6.
Sigalion cirriferum — Lana, 1984: 36; 1987: 1061, table 1; Amaral and Nallin, 2005: 48, table 2.
Deposit number – MCEM – BPO 140.
- Sigalion taquari* Amaral and Nonato, 1984
Sigalion taquari Amaral and Nonato, 1984: 23, figs. 44-53.
Sigalion taquari — Lana, 1987: 1061, table 1; 1991: 125, figs. 9-10.
Deposit number – MCEM – BPO 133-139.
- Sthenelanella peterseni* Lana, 1991
Sthenelanella peterseni — Lana, 1984: 30; 1987: 1061, table 1 (Original name in an unpublished thesis).
Sthenelanella peterseni Lana, 1991: 122, figs. 1-8.
Deposit number – MCEM – BPO 130.
- Sthenelais limicola* (Ehlers, 1864)
Sigalion limicola Ehlers, 1864: 120, figs 4-7.
Sthenelais limicola — Lana, 1984: 42; 1987: 1061, table 1; 1991: 131; Amaral and Nallin, 2005: 48, table 2.
Deposit number – MCEM – BPO 151-169; MZUSP 303.
- Sthenelais articulata* Kinberg, 1855
Sthenelais articulata Kinberg, 1855: 387.
Sthenelais articulata — Lana, 1984: 43; 1987: 1061, table 1; 1991: 131.
Deposit number – MCEM – BPO 148-150 ; 231.
- Sthenolepis oculata* (Hartman, 1942)
Leanira oculata Hartman, 1942 : 93, figs.1-5.
Sthenolepis oculata — Lana, 1984: 45; 1987: 1061, table 1; 1991: 131.
Deposit number – MCEM – BPO 230.
- Thalenessa edwardsii* (Kinberg, 1855)
Sigalion edwardsii Kinberg, 1855: 387.
Thalenessa edwardsii — Lana, 1984: 38; 1987: 1061, table 1; 1991: 127, figs. 17-21.
Deposit number – MCEM – BPO 144; 232.

Spionidae Grube, 1850

- Aonides mayaguezensis* Foster, 1969
Aonides mayaguezensis Foster, 1969: 393, figs. 22-33.
- Apoprionospio dayi* Foster, 1969
Apoprionospio dayi Foster, 1969: 383, figs. 1-11.
Prionospio dayi — Bolívar, 1986: 40, figs. 89-93; Bolívar and Lana, 1987: 143, figs. 75-79.
Deposit number – USNM 100448
- Apoprionospio pygmaea* (Hartman, 1961)
Prionospio pygmaeus Hartman, 1961: 93.
Deposit number – MZUSP 59-61.
- Boccardiella bihamata* Blake and Kudenov, 1978
Boccardiella bihamata Blake and Kudenov, 1978: 265, fig. 48.
Deposit number – MZUSP 68.
- Boccardiella ligerica* (Ferronière, 1898)
Boccardia ligerica Ferronière, 1898: 109, pl. 6, figs. a-i.
Deposit number – MZUSP 70.
- Dipolydora barbilla* (Blake, 1981)
Polydora barbilla Blake, 1981: 947, fig. 1.

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Deposit number – MZUSP 80.

Dipolydora socialis (Schmarda, 1861)

Leucodore socialis Schmarda, 1861: 64, figs. a-c, pl. 26, fig. 209, 209a.

Polydora socialis — Bolívar, 1986: 15, figs. 7-13; Bolívar and Lana, 1987: 113, figs. 1-7; Amaral and Nallin, 2005: 48, table 2.

Deposit number – MZUSP 82-90.

Dispio sp.

Deposit number – MZUSP 94-95; 98.

Dispio remanei Friedrich, 1956

Dispio remanei Friedrich, 1956: 65, fig. 6.

Dispio remanei — Bolívar, 1986: 22, figs. 30-42; Bolívar and Lana, 1987: 120, figs. 26-29 Amaral and Nallin, 2005: 48, table 2.

Deposit number – MCEM – BPO 55-57; USNM 100446.

Heterospio sp.

Deposit number – MZUSP 106-107.

Laonice branchiata Nonato, Bolívar and Lana, 1986

Laonice branchiata Nonato, Bolívar and Lana, 1986: 21, figs. 1-7.

Laonice branchiata — Bolívar and Lana, 1987: 120.

Deposit number – MCEM – BPO 52-54; MZUSP 111; 114; 116; USNM 100451.

Laonice sp. 1

Laonice cirrata— Bolívar, 1986: 18, figs. 27-31; Bolívar and Lana, 1987: 118, figs. 21-25. Not Sars, 1851: 64.

Deposit number – MCEM– BPO 39; 41-44; 48.

Laonice sp. 2

Deposit number – MZUSP 117; 119-120; 122 ; 124-125.

Microspio pigmentata (Reish, 1959)

Spiophanes pigmentata Reish, 1959: 11, pl. 6, figs. 1-4.

Microspio pigmentata — Bolívar, 1986: 27, figs. 51-55; Bolívar and Lana, 1987: 126, figs. 38-42.

Deposit number – MCEM – BPO 59-60; MZUSP 137.

Paraprionospio sp.

Paraprionospio pinnata — Bolívar, 1986: 35, figs. 73-79; Bolívar and Lana, 1987: 136, figs. 59-65; Blankensteyn and Moura, 2002: 718, table 2. Not Ehlers, 1901: 163.

Deposit number – MCEM – BPO 78-90; MZUSP 146-151.

Poecilochaetus australis Nonato, 1963

Poecilochaetus australis Nonato, 1963: 17, figs. 1-11.

Poecilochaetus johnsoni — Ribeiro, 2004: 55.

Deposit number- MZUSP 155.

Poecilochaetus sp. n 1 Santos and Mackie (in preparation)

Deposit number- MCEM- BPO 1290-1291.

Poecilochaetus sp. n.2 Santos and Mackie (in preparation)

Deposit number – MCEM-BPO 1292-1294.

Polydora carinhosa Radashevsky, Lana and Nalesso (submitted).

Polydora carinhosa Radashevsky, Lana and Nalesso (submitted).

Polydora colonia Moore, 1907

Polydora colonia Moore, 1907: 199, pl. 15, figs. 18-23.

Deposit number – MZUSP 162-164.

Polydora cornuta Bosc, 1802

Polydora cornuta Bosc, 1802: 150, p. 5, figs 7–8.

Polydora cornuta — Radashevsky, 2005: 3, figs. 1–4.

Deposit number – SMF 13975; 13978; USNM 1020474-1020475.

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Polydora ecuadoriana Blake, 1983

Polydora ecuadoriana Blake, 1983: 257–258, fig. 26.

Polydora ecuadoriana — Radashevsky, Lana and Nalesso (submitted).

Deposit number – MZUSP 166; 169; 172; USNM 1022185-1022187.

Polydora cf. *haswelli* Blake and Kudenov, 1978

Polydora haswelli Blake and Kudenov, 1978: 259, fig. 44.

Polydora haswelli — Radashevsky, Lana and Nalesso (submitted).

Polydora websteri — Bolívar, 1986: 17, figs. 14-26; Bolívar and Lana, 1987: 115, figs. 8-20; Blankensteyn and Moura, 2002: 718, table 2. Not Hartman in Loosanoff and Engle, 1943.

Deposit number – MCEM – BPO 38; MZUSP 174; 176; 178.

Polydora nuchalis Woodward, 1953

Polydora nuchalis Woodward, 1953: 381, fig. 1.

Deposit number – MZUSP 180.

Polydora sp. 1

Deposit number – MZUSP 182.

Polydora sp. 2

Deposit number – MZUSP 183-185.

Prionospio ehlersi Fauvel, 1928

Prionospio ehlersi Fauvel, 1928: 10, figs. 1a-e.

Prionospio ehlersi — Bolívar, 1986: 38, figs. 84-88; Bolívar and Lana, 1987: 141, figs. 70-74.

Deposit number – MCEM – BPO 92.

Prionospio heterobranchia Moore, 1907

Prionospio heterobranchia — Moore, 1907: 195, pl. XV, figs. 1-6.

Deposit number – MZUSP 200.

Prionospio sp.

Prionospio steenstrupi — Bolívar, 1986: 37, figs. 80-83; Bolívar and Lana, 1987: 139, figs. 66-69. Not

Deposit number – MCEM – BPO 91.

Pseudopolydora achaeta Radashevsky and Hsieh, 2000

Pseudopolydora achaeta Radashevsky and Hsieh, 2000: 223, figs. 4, 5, 11a.

Deposit number – MZUSP 237; 240.

Pseudopolydora diopatra Hsieh, 1992

Pseudopolydora diopatra Hsieh, 1992: 630, figs. 1-10.

Deposit number – IMBV 12394.

Scolecipis goodbodyi (Jones, 1962)

Nerinides goodbodyi Jones, 1962: 187, figs. 66-68.

Scolecipis squamata — Bolívar, 1986: 25, figs. 43-50; Bolívar and Lana, 1987: 124, figs. 30-37; Blankensteyn and Moura, 2002: 718, table 2. Not *Lumbricus squamatus* Müller, 1806; 39.

Deposit number – MCEM – BPO 58; MZUSP 237; 240.

Scolecipis sp. 1

Deposit number – MZUSP 259-260.

Scolecipis sp. 2

Deposit number – MZUSP 249.

Scolecipis quinquedentata (Hartmann-Schröder, 1965)

Nerinides quinquedentata Hartmann-Schröder, 1965: 203, figs. 187-190.

Deposit number – MZUSP 255; 257.

Spiophanes anoculata Hartman, 1960

Spiophanes anoculata Hartman, 1960: 118.

Spiophanes bombyx — Bolívar, 1986: 33, figs. 67-72; Bolívar and Lana, 1987: 134, figs. 54-58. Not Claparède, 1870.

Deposit number – MCEM – BPO 74-77; MZUSP 268-270; 272-277.

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Spiophanes berkeleyorum Pettibone, 1962

Spiophanes berkeleyorum Pettibone, 1962: 78, figs. 1-4.

Spiophanes cf. *kroyeri* — Bolívar, 1986: 30, figs. 56-61; Bolívar and Lana, 1987: 129, figs. 43-47. Not Grube, 1860.

Deposit number — MCEM — BPO 61; 62; MZUSP 278-294.

Spiophanes duplex (Chamberlin, 1919)

Morants duplex Chamberlin, 1919: 17.

Spiophanes missionensis — Bolívar, 1986: 32, figs. 62-66; Bolívar and Lana, 1987: 132, figs. 48-53; Blankensteyn and Moura, 2002: 718, table 2. Not Hartman, 1941.

Deposit number — MCEM — BPO 63-73; ZSRO P1413; P1576-P1577; USNM 100450.

Streblospio sp.

Deposit number — MZUSP 304; 306-307.

Sternaspidae Carus, 1863

Sternaspis capillata Nonato, 1966

Sternaspis capillata Nonato, 1966: 79-84, figs. 1-9.

Sternaspis capillata — Nonato, 1981: 188; Attolini, 2002: 28, figs. 8-9, 11-12, tables 4, 8.

Syllidae Grube, 1850

Exogone arenosa Perkins, 1980

Exogone arenosa Perkins, 1980: 1094, figs. 5g-j, 6.

Exogone arenosa — Lana, 1984: 66, figs. 55-56; 1987: 1061, table 1.

Langerhansia cornuta (Rathke, 1843)

Syllis cornuta Rathke, 1843: 164.

Langerhansia cornuta — Lana, 1987: 1061, table 1.

Odontosyllis heterofalchaeta Temperini, 1981

Odontosyllis heterofalchaeta Temperini, 1981: 22, figs. 44-48 176 (Original name in an unpublished thesis)

Odontosyllis heterofalchaeta — Lana, 1984: 69, figs. 59-60.

Odontosyllis fulgurans (Audouin and Milne-Edwards, 1834)

Syllis fulgurans Audouin and Milne-Edwards, 1834: 229.

Odontosyllis fulgurans — Amaral *et al.*, 2006: 147.

Pionosyllis pectinata Temperini, 1981

Pionosyllis pectinata Temperini, 1981: 23, figs. 49-55. (Original name in an unpublished thesis).

Pionosyllis pectinata — Lana, 1984: 67, figs. 57-58; 1987: 1061, table 1.

Deposit number — MCEM — BPO 1449-1450; 1452-1454; 1461.

Typosyllis hialina (Grube, 1863)

Syllis hialina Grube, 1863: 45.

Typosyllis hialina — Lana, 1984: 71, fig. 61; 1987: 1061, table 1.

Deposit number — MCEM — BPO 1446.

Obs: This is probably a misidentification and this material needs to be revised.

Typosyllis variegata (Grube, 1860)

Syllis variegata Grube, 1860: 65.

Typosyllis variegata — Lana, 1984: 72; 1987: 1061, table 1.

Terebellidae Grube, 1850

Artacama benedeni Kinberg, 1867

Artacama benedeni Kinberg, 1867: 346.

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- Artacama benedeni* — Blankensteyn, 1988: 32, figs. 5a-f, 9.
Deposit number – MCEM – BPO 252-259.
- Loimia medusa* (Savigny, 1818)
Terebella medusa Savigny, 1818: 95.
Loimia medusa — Blankensteyn, 1988: 58, figs. 12a-f, 17.
Deposit number – MCEM – BPO 288-299; MZUSP 127.
Obs: This is probably a misidentification and this material needs to be revised.
- Loimia grubei* (Grube, 1878)
Terebella montagui Grube, 1878: 1.
Loimia grubei — Blankensteyn, 1988: 62, figs. 13a-h, 16.
Deposit number – MCEM – BPO 301-304.
Obs: This is probably a misidentification and this material needs to be revised.
- Lysilla pacifica* Hessle, 1917
Lysilla pacifica Hessle, 1917: 232, fig. 66.
Lysilla pacifica — Blankensteyn, 1988: 91, figs. 22a-c, 24.
Deposit number – MCEM – BPO 322-323.
Obs: This is probably a misidentification and this material needs to be revised.
- Neoamphitrite variabilis* (Risso, 1826)
Terebella variabilis Risso, 1826: 408
Neoamphitrite cf. *variabilis* — Blankensteyn and Moreno, 1988: 32, figs. 6a-g, 9.
Obs: This is probably a misidentification and this material needs to be revised.
- Nicolea uspiiana* (Nogueira, 2003)
Paraeupolymnia uspiiana Nogueira, 2003: 405, figs. 1-2
Nicolea venustula — Blankensteyn & Moreno, 1999: 320, fig. 1.
Deposit number – MZUSP 142.
- Octobranthus longipes* Blankensteyn and Lana, 1987
Octobranthus longipes Blankensteyn and Lana, 1987: 671, figs. 1a-c., 2a-b, 3a-e.
Octobranthus longipes — Blankensteyn, 1988: 104, figs. 26a-g, 29.
Deposit number – MCEM – BPO 247-248.
- Pista corrientis* McIntosh, 1885
Pista corrientis McIntosh, 1885: 457, fig. 11, pl. 48, fig. 35, pl. 27a.
Pista corrientis — Blankensteyn, 1988: 43, figs. 10a-g, 16, 17.
Deposit number – MCEM – BPO 269-286.
- Pista cristata* (Müller, 1776)
Amphitrite cristata Müller, 1776: 216.
Pista cristata — Blankensteyn, 1988: 47, figs. 8a-g, 9.
Deposit number – MCEM – BPO 264-268.
Obs: This is probably a misidentification and this material needs to be revised.
- Terebellides anguicomus* Müller, 1858
Terebellides anguicomus Müller, 1858: 218, pl. 7, figs. 22-25.
Terebellides anguicomus — Blankensteyn, 1988: 107, figs. 27a-g, 29, 30; Solis-Weiss *et al.*, 1991: 149, fig. 1g-I; Garraffoni & Lana, 2003: 360, figs. 11,-12.
Deposit number – MCEM – BPO 249; 250; 328-334; MZUSP 308.
- Thelepus setosus* (Quatrefages, 1865)
Phenacia setosus Quatrefages, 1865: 374.
Thelepus setosus — Blankensteyn, 1988: 74, figs. 17, 18a-g, 24.
Deposit number – MCEM – BPO 309-313.
Obs: This is probably a misidentification and this material needs to be revised.

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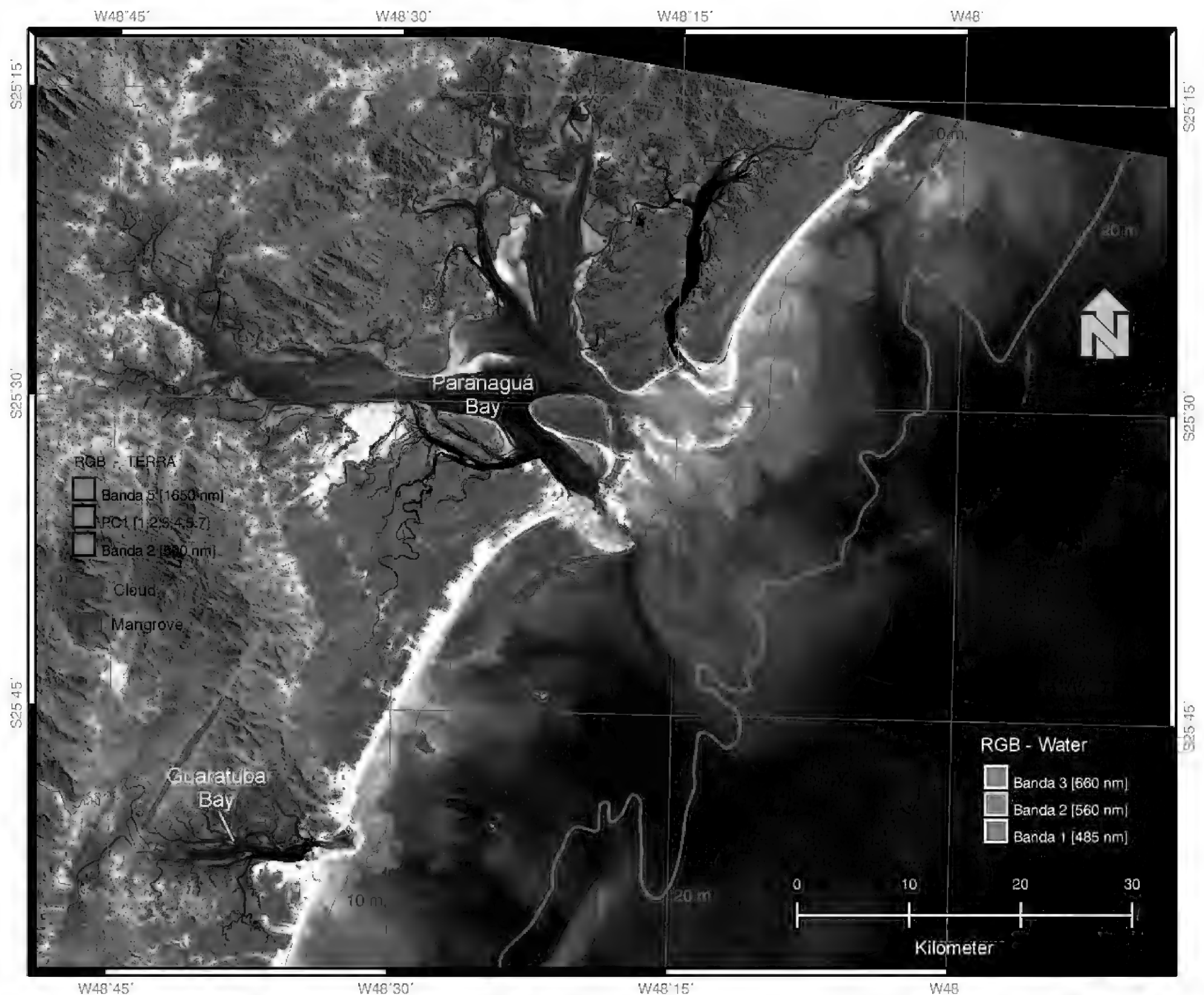


Figure 1. Location of sampled environments in Paraná State.

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